

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number:

10/528,563

Source:

PCT

Date Processed by STIC:

4-6-05

# ***ENTERED***

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/528,563 : CRF Edit Date: 4-6-05  
Edited by: zue

☒ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

☐ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

☒ Deleted: ☒ invalid beginning/end-of-file text ; \_\_\_\_\_ page numbers

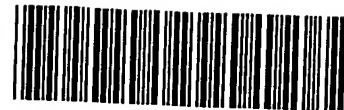
☐ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

☐ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

☒ Other: Corrected 4007 response for  
seq ID #528563. #150 corrected  
4007 responses for seq ID #66-68.



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,563

DATE: 04/06/2005

TIME: 17:06:43

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04062005\J528563.raw

3 <110> APPLICANT: Cymip A/S  
4 Jonson, Lars  
5 Rehfeld, Jens F.  
6 Johnsen, Anders H.  
8 <120> TITLE OF INVENTION: Methods for increasing the production of  
9 a recombinant polypeptide from a host cell  
12 <130> FILE REFERENCE: P32077PC01  
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/528,563  
C--> 14 <141> CURRENT FILING DATE: 2005-03-21  
14 <150> PRIOR APPLICATION NUMBER: DK/PA 2002 01391  
15 <151> PRIOR FILING DATE: 2002-09-20  
17 <160> NUMBER OF SEQ ID NOS: 68  
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
22 <210> SEQ ID NO: 1  
23 <211> LENGTH: 5  
24 <212> TYPE: PRT  
25 <213> ORGANISM: Artificial Sequence  
27 <220> FEATURE:  
28 <223> OTHER INFORMATION: Pitrilysin consensus sequence  
30 <220> FEATURE:  
31 <221> NAME/KEY: MISC\_FEATURE  
32 <222> LOCATION: (2)..(2)  
33 <223> OTHER INFORMATION: X = any amino acid  
35 <220> FEATURE:  
36 <221> NAME/KEY: MISC\_FEATURE  
37 <222> LOCATION: (3)..(3)  
38 <223> OTHER INFORMATION: X = any amino acid  
41 <400> SEQUENCE: 1  
W--> 43 His Xaa Xaa Glu His  
44 1 5  
47 <210> SEQ ID NO: 2  
48 <211> LENGTH: 46  
49 <212> TYPE: PRT  
50 <213> ORGANISM: Artificial Sequence  
52 <220> FEATURE:  
53 <223> OTHER INFORMATION: Pitrilysin consensus sequence  
55 <220> FEATURE:  
56 <221> NAME/KEY: MISC\_FEATURE  
57 <222> LOCATION: (2)..(2)  
58 <223> OTHER INFORMATION: X = any amino acid  
61 <220> FEATURE:  
62 <221> NAME/KEY: MISC\_FEATURE  
63 <222> LOCATION: (3)..(3)

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## RAW SEQUENCE LISTING

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DATE: 04/06/2005

TIME: 17:06:43

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04062005\J528563.raw

64 <223> OTHER INFORMATION: X = any amino acid  
W--> 65 <220> **FEATURE:**  
66 <221> NAME/KEY: MISC\_FEATURE  
67 <222> LOCATION: (5)..(5)  
68 <223> OTHER INFORMATION: X = any amino acid  
W--> 71 <220> **FEATURE:**  
72 <221> NAME/KEY: MISC\_FEATURE  
73 <222> LOCATION: (6)..(6)  
74 <223> OTHER INFORMATION: X = any amino acid  
W--> 77 <220> **FEATURE:**  
78 <221> NAME/KEY: MISC\_FEATURE  
79 <222> LOCATION: (9)..(9)  
80 <223> OTHER INFORMATION: X = any amino acid  
W--> 83 <220> **FEATURE:**  
84 <221> NAME/KEY: MISC\_FEATURE  
85 <222> LOCATION: (10)..(10)  
86 <223> OTHER INFORMATION: X = any amino acid  
W--> 89 <220> **FEATURE:**  
90 <221> NAME/KEY: MISC\_FEATURE  
91 <222> LOCATION: (11)..(11)  
92 <223> OTHER INFORMATION: X = any amino acid  
W--> 95 <220> **FEATURE:**  
96 <221> NAME/KEY: MISC\_FEATURE  
97 <222> LOCATION: (12)..(12)  
98 <223> OTHER INFORMATION: X = any amino acid  
W--> 101 <220> **FEATURE:**  
102 <221> NAME/KEY: MISC\_FEATURE  
103 <222> LOCATION: (14)..(14)  
104 <223> OTHER INFORMATION: X = any amino acid  
W--> 107 <220> **FEATURE:**  
108 <221> NAME/KEY: MISC\_FEATURE  
109 <222> LOCATION: (15)..(15)  
110 <223> OTHER INFORMATION: X = any amino acid  
W--> 113 <220> **FEATURE:**  
114 <221> NAME/KEY: MISC\_FEATURE  
115 <222> LOCATION: (16)..(16)  
116 <223> OTHER INFORMATION: X = any amino acid  
W--> 119 <220> **FEATURE:**  
120 <221> NAME/KEY: MISC\_FEATURE  
121 <222> LOCATION: (17)..(17)  
122 <223> OTHER INFORMATION: X = any amino acid  
W--> 123 <220> **FEATURE:**  
124 <221> NAME/KEY: MISC\_FEATURE  
125 <222> LOCATION: (18)..(18)  
126 <223> OTHER INFORMATION: X = any amino acid  
W--> 129 <220> **FEATURE:**  
130 <221> NAME/KEY: MISC\_FEATURE  
131 <222> LOCATION: (19)..(19)  
132 <223> OTHER INFORMATION: X = any amino acid

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/528,563

DATE: 04/06/2005  
TIME: 17:06:43

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\04062005\J528563.raw

W--> 135 <220> FEATURE:  
136 <221> NAME/KEY: MISC\_FEATURE  
137 <222> LOCATION: (20)..(20)  
138 <223> OTHER INFORMATION: X = any amino acid  
W--> 141 <220> FEATURE:  
142 <221> NAME/KEY: MISC\_FEATURE  
143 <222> LOCATION: (21)..(21)  
144 <223> OTHER INFORMATION: X = any amino acid  
W--> 147 <220> FEATURE:  
148 <221> NAME/KEY: MISC\_FEATURE  
149 <222> LOCATION: (22)..(22)  
150 <223> OTHER INFORMATION: X = any amino acid  
W--> 153 <220> FEATURE:  
154 <221> NAME/KEY: MISC\_FEATURE  
155 <222> LOCATION: (23)..(23)  
156 <223> OTHER INFORMATION: X = any amino acid  
W--> 159 <220> FEATURE:  
160 <221> NAME/KEY: MISC\_FEATURE  
161 <222> LOCATION: (24)..(24)  
162 <223> OTHER INFORMATION: X = any amino acid  
W--> 165 <220> FEATURE:  
166 <221> NAME/KEY: MISC\_FEATURE  
167 <222> LOCATION: (25)..(25)  
168 <223> OTHER INFORMATION: X = any amino acid  
W--> 171 <220> FEATURE:  
172 <221> NAME/KEY: MISC\_FEATURE  
173 <222> LOCATION: (26)..(26)  
174 <223> OTHER INFORMATION: X = any amino acid  
W--> 177 <220> FEATURE:  
178 <221> NAME/KEY: MISC\_FEATURE  
179 <222> LOCATION: (27)..(27)  
180 <223> OTHER INFORMATION: X = any amino acid  
W--> 181 <220> FEATURE:  
182 <221> NAME/KEY: MISC\_FEATURE  
183 <222> LOCATION: (28)..(28)  
184 <223> OTHER INFORMATION: X = any amino acid  
W--> 187 <220> FEATURE:  
188 <221> NAME/KEY: MISC\_FEATURE  
189 <222> LOCATION: (29)..(29)  
190 <223> OTHER INFORMATION: X = any amino acid  
W--> 193 <220> FEATURE:  
194 <221> NAME/KEY: MISC\_FEATURE  
195 <222> LOCATION: (30)..(30)  
196 <223> OTHER INFORMATION: X = any amino acid  
W--> 199 <220> FEATURE:  
200 <221> NAME/KEY: MISC\_FEATURE  
201 <222> LOCATION: (31)..(31)  
202 <223> OTHER INFORMATION: X = any amino acid  
W--> 205 <220> FEATURE:

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DATE: 04/06/2005

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Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04062005\J528563.raw

```

206 <221> NAME/KEY: MISC_FEATURE
207 <222> LOCATION: (32)..(32)
208 <223> OTHER INFORMATION: X = any amino acid
W--> 211 <220> FEATURE:
212 <221> NAME/KEY: MISC_FEATURE
213 <222> LOCATION: (33)..(33)
214 <223> OTHER INFORMATION: X = any amino acid
W--> 217 <220> FEATURE:
218 <221> NAME/KEY: MISC_FEATURE
219 <222> LOCATION: (34)..(34)
220 <223> OTHER INFORMATION: X = any amino acid
W--> 223 <220> FEATURE:
224 <221> NAME/KEY: MISC_FEATURE
225 <222> LOCATION: (35)..(35)
226 <223> OTHER INFORMATION: X = any amino acid
W--> 229 <220> FEATURE:
230 <221> NAME/KEY: MISC_FEATURE
231 <222> LOCATION: (36)..(36)
232 <223> OTHER INFORMATION: X = any amino acid or is absent
W--> 235 <220> FEATURE:
236 <221> NAME/KEY: MISC_FEATURE
237 <222> LOCATION: (37)..(37)
238 <223> OTHER INFORMATION: X = any amino acid or is absent
W--> 239 <220> FEATURE:
240 <221> NAME/KEY: MISC_FEATURE
241 <222> LOCATION: (40)..(40)
242 <223> OTHER INFORMATION: X = any amino acid
W--> 245 <220> FEATURE:
246 <221> NAME/KEY: MISC_FEATURE
247 <222> LOCATION: (42)..(42)
248 <223> OTHER INFORMATION: X = any amino acid
W--> 251 <220> FEATURE:
252 <221> NAME/KEY: MISC_FEATURE
253 <222> LOCATION: (43)..(43)
254 <223> OTHER INFORMATION: X = any amino acid
W--> 257 <220> FEATURE:
258 <221> NAME/KEY: MISC_FEATURE
259 <222> LOCATION: (44)..(44)
260 <223> OTHER INFORMATION: X = any amino acid
W--> 263 <220> FEATURE:
264 <221> NAME/KEY: MISC_FEATURE
265 <222> LOCATION: (45)..(45)
266 <223> OTHER INFORMATION: X = any amino acid
269 <400> SEQUENCE: 2
W--> 271 Gly Xaa Xaa His Xaa Xaa Glu His Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa
272 1 5 10 15
275 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
276 20 25 30
279 Xaa Xaa Xaa Xaa Xaa Asn Ala Xaa Thr Xaa Xaa Xaa Xaa Thr

```

## RAW SEQUENCE LISTING

DATE: 04/06/2005

PATENT APPLICATION: US/10/528,563

TIME: 17:06:43

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04062005\J528563.raw

```
280          35          40          45
283 <210> SEQ ID NO: 3
284 <211> LENGTH: 46
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Pitrilysin consensus sequence
292 <220> FEATURE:
293 <221> NAME/KEY: MISC_FEATURE
294 <222> LOCATION: (2)..(2)
295 <223> OTHER INFORMATION: X = any amino acid
297 <220> FEATURE:
298 <221> NAME/KEY: MISC_FEATURE
299 <222> LOCATION: (3)..(3)
300 <223> OTHER INFORMATION: X = any amino acid
303 <220> FEATURE:
304 <221> NAME/KEY: MISC_FEATURE
305 <222> LOCATION: (5)..(5)
306 <223> OTHER INFORMATION: X = any amino acid
309 <220> FEATURE:
310 <221> NAME/KEY: MISC_FEATURE
311 <222> LOCATION: (6)..(6)
312 <223> OTHER INFORMATION: X = any amino acid
315 <220> FEATURE:
316 <221> NAME/KEY: MISC_FEATURE
317 <222> LOCATION: (9)..(9)
318 <223> OTHER INFORMATION: X = any amino acid
321 <220> FEATURE:
322 <221> NAME/KEY: MISC_FEATURE
323 <222> LOCATION: (10)..(10)
324 <223> OTHER INFORMATION: X = any amino acid
327 <220> FEATURE:
328 <221> NAME/KEY: MISC_FEATURE
329 <222> LOCATION: (11)..(11)
330 <223> OTHER INFORMATION: X = any amino acid
333 <220> FEATURE:
334 <221> NAME/KEY: MISC_FEATURE
335 <222> LOCATION: (12)..(12)
336 <223> OTHER INFORMATION: X = any amino acid
339 <220> FEATURE:
340 <221> NAME/KEY: MISC_FEATURE
341 <222> LOCATION: (14)..(14)
342 <223> OTHER INFORMATION: X = S or T
345 <220> FEATURE:
346 <221> NAME/KEY: MISC_FEATURE
347 <222> LOCATION: (15)..(15)
348 <223> OTHER INFORMATION: X = any amino acid
351 <220> FEATURE:
352 <221> NAME/KEY: MISC_FEATURE
```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/528,563

DATE: 04/06/2005  
TIME: 17:06:44

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\04062005\J528563.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3  
Seq#:2; Xaa Pos. 2,3,5,6,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,25,26  
Seq#:2; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,40,42,43,44,45  
Seq#:3; Xaa Pos. 2,3,5,6,9,10,11,12,14,15,19,20,21,22,23,24,25,26,27,28,30  
Seq#:3; Xaa Pos. 31,32,33,34,35,36,37,40,42,43,44,45  
Seq#:66; Xaa Pos. 2,3,5,6,9,10,11,12  
Seq#:67; Xaa Pos. 2,3,5,6,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,25,26  
Seq#:67; Xaa Pos. 27,28,29,30,31,32,33,34,35,38,40,41,42,43  
Seq#:68; Xaa Pos. 2,3,5,6,9,10,11,12,14,15,19,20,21,22,23,24,25,26,28,29,30  
Seq#:68; Xaa Pos. 31,32,33,34,35,38,40,41,42,43



## VERIFICATION SUMMARY

DATE: 04/06/2005

PATENT APPLICATION: US/10/528,563

TIME: 17:06:44

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04062005\J528563.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:65 M:283 W: Missing Blank Line separator, <220> field identifier  
L:123 M:283 W: Missing Blank Line separator, <220> field identifier  
L:181 M:283 W: Missing Blank Line separator, <220> field identifier  
L:239 M:283 W: Missing Blank Line separator, <220> field identifier  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
M:341 Repeated in SeqNo=2  
L:355 M:283 W: Missing Blank Line separator, <220> field identifier  
L:413 M:283 W: Missing Blank Line separator, <220> field identifier  
L:471 M:283 W: Missing Blank Line separator, <220> field identifier  
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
M:341 Repeated in SeqNo=3  
L:3848 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3852 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66  
L:3856 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66  
L:3860 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66  
L:3863 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66  
L:3864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0  
L:3877 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3881 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
L:3885 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
L:3889 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
L:3893 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
L:3897 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
L:3898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0  
M:341 Repeated in SeqNo=67  
L:3915 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:3919 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
L:3923 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
L:3927 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
L:3931 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
L:3935 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
L:3936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
M:341 Repeated in SeqNo=68